



## Installation & Control Guide for SLPBWP Wireless Controller

All electrical appliances produced by the Company are guaranteed for one year against faulty materials or workmanship. This applies only if the appliance has been used for purposes in accordance with the instructions provided and has not been connected to an unsuitable electricity supply, or subject to misuse, neglect, damage or modified or repaired by any person not authorised by us. This guarantee is offered to you as an extra benefit and does not affect your legal rights.

The correct electricity supply voltage is shown on the rating label attached to the appliance.

Reasonable care has been taken to ensure that this guide is accurate at the time of printing. In the interest of progress the Company reserve the right to vary specifications from time to time without notice.

### **CUSTOMER HELPLINE**

Should you need any advice on the use of your new Consort product, please contact our Helpline:

### **Consort Equipment Products Limited**

Thornton Industrial Estate, Milford Haven, Pembrokeshire, SA73 2RT

Tel: 01646 692172 Fax: 01646 695195 Email: [technical@consortepl.com](mailto:technical@consortepl.com) Web: [www.consortepl.com](http://www.consortepl.com)

Operation hours: Mon to Thu 8.30am to 4.30pm | Fri 8.30am to 3.30pm

BS EN ISO 9001 Registered Company No FM12671

# SLPBWP Wireless Controller Installation and User Guide

## WARNINGS

- Do NOT use the appliance if damaged.
- Do NOT leave the appliance unattended where young children are present.
- Operating temperature range -10 to +40°C.

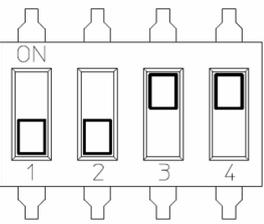
### 1. Getting to know your SL wireless controller

The SLPBWP controller can control multiple heaters within its RF range. The RF range can be extended if necessary, see product code SLEXT. The SLPBWP is rated IP65 making suitable for outdoor use. The controller has 3 operating modes. The required mode must be set prior to the installation by using the switches located on the back of the controller. These modes are:

- Timer
- Basic
- Temperature Control

### 2. Timer Mode

For timer mode, the switches are set as shown below.



In timer mode, switch 3 and/or 4 must be in the 'ON' position. This mode allows for 3 different settings which will alter the time period .

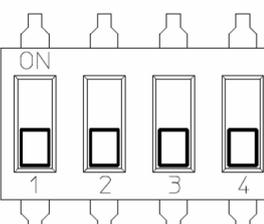
- Switch 3 - Time period of 15 minutes.
- Switch 4 - Time period of 30 minutes.
- Switch 3 & 4—Time period of 60 minutes

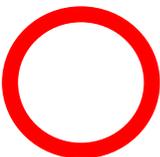
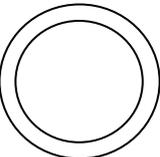
#### Controller functionality in timer mode:

In timer mode, the controller acts as a run-back timer. When the controller is in stand-by mode and the button is pressed, the light indicator will light up green and heating is activated. Once activated the indicator will change from green to light blue showing it's in run-back mode. Once the timer has run out, the light will go red and de-activate the heating. If the button is pressed when the controller is in run-back mode, this will cancel the time and de-activate the heating.

### 3. Basic Mode

For basic mode, the switches are set as shown below.



Heating Active  Stand-By   

#### Controller functionality in basic mode:

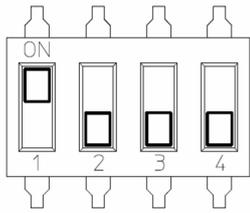
Press button to activate heating, press button again to set controller to stand-by.

When heating is active, the light indicator is green. After pressing the button, heating is set to stand-by; the indicator will change from green to red for 4 seconds and then go off.

## 4. Temperature Control Mode

### Temperature control for Comfort period (where being used for an internal application)

For this mode, switches are set as shown below.



The temperature control feature will effectively maintain the set room temperature. The target temperature can be set using the knob marked COMF located at the back of the controller as shown below. The range is 15°C - 35°C. Once the room temperature reaches the set temperature, the indicator will change from green to yellow. When the room temperature drops, heating will become active and the indicator will change to green.



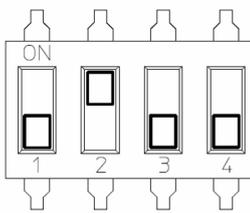
Set temperature achieved



Variable resistors to set temperature

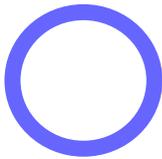
### Temperature control for Setback period

For this mode, the switches are set as shown below.



In this mode, the controller will set heating active when the room temperature drops below the set temperature. This feature can be used for frost protection or in situations where a minimum room temperature must be maintained. The setback temperature can be set using the knob marked SETB mounted on the back of the unit as shown above. This can be set from 0°C - 15°C.

If the heating is active in the setback mode, the indicator will illuminate blue.



Room temperature below the set temperature. Heating is active.

Temperature control for comfort and setback periods can be used individually or together. This can also be used in conjunction with the timer mode options.

## 5. Changing temperature or timer settings after installation

The temperature and/or timer settings can be changed after installation. It is important to switch the power off to the controller before the changes are made. After the changes are made and the power is restored the new settings will take effect.

## 6. External Input

The controller can be switched off using any external device with voltage free contacts. For example, timers or a building management system.

**If this function isn't used, a wire link across the external input connectors must be used.**

When the external input connection is open, the indicator will illuminate red and the heating will be disabled. However, setback mode will still operate at low temperature.



## 7. Choosing a position in a room

The SLPBWP controller should be fixed to the wall. Avoid areas with draught or direct sun. Do not position the controller above or close to the heaters or other heat sources. Avoid installing the controller in areas where there are metal objects between the heater and the controller. This will reduce the RF range. The RF range in ideal conditions can be up to 20m however this can be reduced when the signal is passing through the walls or other objects. The range can be also affected where the controller is mounted close to power cables, motors or equipment producing a strong electromagnetic field. If the temperature control feature is used it is necessary to use one controller for each room or zone.

## 8. Connection to the Main Supply

For the mains power, connect L, N & E wires to the connectors marked as L, N & E.

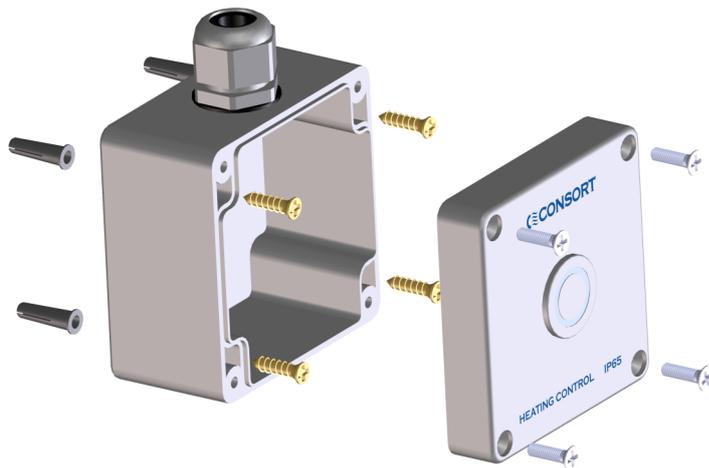
Electrical installation should be carried out by a competent installer, preferably registered with NICEIC (National Inspection Council for Electrical Installation Contracting) in accordance with the 18 edition of the IEE Wiring Regulations, (BS.7671), and any relevant Local Authority Bye-Laws.

## 9. Installation

The controller can be powered by either mains 240VAC 50Hz or 12VDC. The power consumption is less than 1W. Do not connect mains voltage to 12V terminals, this will damage the controller. The maximum size wire that can be used is 1mm<sup>2</sup>. This can be twin and earth or standard flex. Do not overtighten the connector screws. Take care not to damage the components when connecting the cables.

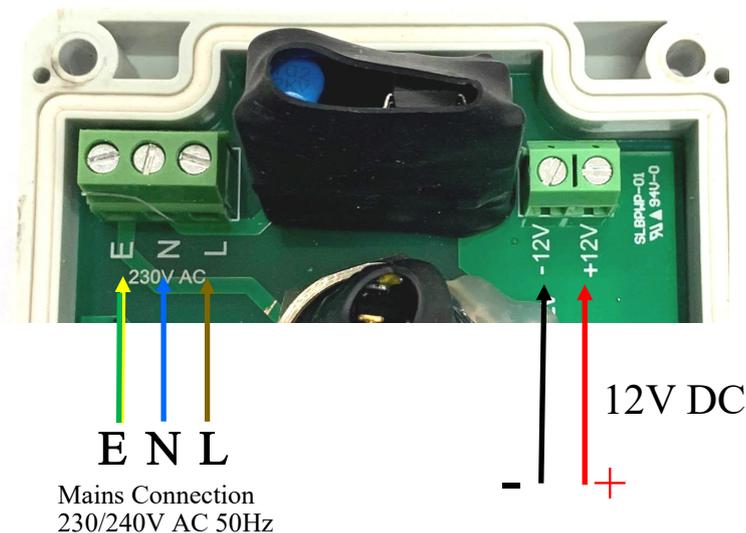
The gland outlet can be positioned at the top or bottom of the controller this will depend on the installation.

The controller comes with 4 wall plugs suitable for a 5mm hole and 4 screws. See the diagram on the right for installation assembly.



## 11. Connection to 12V DC

When powering the controller with 12Vdc, the installation must comply with the Separated Extra Low Voltage (SELV) requirements. When powered by 12VDC, please ensure that the power supply is suitable for 12V 0.1A. For 12VDC power connect positive wire to terminal marked +12V and negative to terminal marked -12V.



Mains Connection  
230/240V AC 50Hz

12V DC

## 12. Self Diagnostic

The controller is equipped with a self diagnostic software that will check functionality of all main components. If there is a fault with any part of the controller or the controller is operating outside of the temperature limits, the light indicator will flash red. If this happens, controller will not function in order to protect itself and the heaters.

## 13. Pairing with heaters

In order to pair your appliance with the controller you must do the following:

- Ensure the controller is in the OFF position (the light indicator is off or red).
- Turn power to the appliance ON.
- Within 20 seconds, press and hold the ON button on the controller until the light indicator begins to flash yellow.
- After the pairing is finished, the light indicator will change to green.
- If the pairing was successful, the appliance should emit heat. It can take up to 4 seconds.
- After 4 seconds, the appliance will be switched off.
- The appliance is now ready to be used.